



7. Which of these are of equal lengths?

- a) All parallels of latitude
- b) All meridians
- c) All isotherms drawn on earth
- d) All isobars drawn on earth

8. Which of these water bodies witnesses sun rise at the earliest (as per GMT system)?

- a) North Sea
- b) Black Sea
- c) Caspian Sea
- d) Arabian Sea

9. Consider the following statements.

- 1. The distance between two longitudes increases going towards the equator from the poles.
- 2. The distance between two latitudes increases towards the poles going from the equator.

Which of the above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) None

10. The Indian plate borders

- 1. Somail Plate
- 2. Arabian Plate
- 3. Australian Plate

Which of the above is/are correct?

- a) 1, 2 and 3
- b) 2 and 3 only
- c) 1 and 3 only
- d) 2 only

11. Consider the following statements about Sea floor spreading.

- 1. It is caused by a sinking mantle.
- 2. It is verified by the observation that ocean crust rocks are much younger than the continental rocks.
- 3. The sediments on the ocean floor get unexpectedly very thick due to sea floor spreading.

Select the correct answer using the codes below.

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 2 only

12. Consider the following statements.

- 1. Mid-Atlantic ridge is an example of convergent boundary.
- 2. A subduction zone cannot be formed between an Oceanic and a continental plate.
- 3. Transform faults are the planes of separation generally perpendicular to the mid-oceanic ridges.

Select the correct answer using the codes below.

- a) 3 only
- b) 1 only
- c) 1 and 2 only
- d) 1 and 3 only



19. About 98 per cent of the total crust of the earth is composed of eight elements. These eight elements most likely do NOT include

- a) Oxygen
- b) Carbon
- c) Silicon
- d) Iron

20. Which of the following can be classified as endogenic geomorphic processes?

- 1. Weathering
- 2. Wind Erosion and deposition
- 3. Diastrophism
- 4. Volcanism

Select the correct answer using the codes below.

- a) 1 and 2 only
- b) 2, 3 and 4 only
- c) 3 and 4 only
- d) 1 and 4 only

21. Consider the following statements.

- 1. In the process of orogeny, the crust is severely deformed into folds and thus it is called as a mountain building process.
- 2. Due to epeirogeny, there may be a simple deformation in the crust and thus it is called as a continental building process.

Select the correct answer using the codes below.

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) None of the above

22. Weathering of rocks can be caused by

- 1. Seepage of water
- 2. Thermal stresses
- 3. Plant root penetration in rocks
- 4. Frost action

Select the correct answer using the codes below.

- a) 2 and 3 only
- b) 1 and 4 only
- c) 2, 3 and 4 only
- d) 1, 2, 3 and 4

23. Crescent-shaped oxbow lakes form in river valleys mainly as a result of

- a) Tectonic movements
- b) Glacial deposition
- c) Meandering and river deposition
- d) Volcanic activity

24. Factors that help in the evolution of landforms on earth include

- 1. Movement of magma within the earth
- 2. Growth and decay of vegetation
- 3. Erosion and deposition
- 4. Frost action and glacial movement

Select the correct answer using the codes below.

- a) 1 and 3 only
- b) 2 and 4 only
- c) 1, 3 and 4 only
- d) 1, 2, 3 and 4

25. Alluvial fans are formed when

- 1. Streams flowing from higher levels break into foot slope plains of low gradient

2. The river does not carry much load or carries only fine sediments
3. A river is nearing the sea

Select the correct answer using the codes below.

- |                 |                 |
|-----------------|-----------------|
| a) 1 only       | b) 1 and 2 only |
| c) 2 and 3 only | d) 3 only       |

26. Lagoons can be formed in

1. High rocky coasts
2. Low sedimentary coasts

Which of the above is/are correct?

- |                 |           |
|-----------------|-----------|
| a) 1 only       | b) 2 only |
| c) Both 1 and 2 | d) None   |

27. With reference to Loess, consider the following statements.

1. It can be created by wind as well as movement by glaciers.
2. It mostly tends to accumulate at the edges of coasts.
3. It is devoid of mineral deposits.
4. It is the fastest eroding soil deposit among all different types of soil.

Select the correct answer using the codes below.

- |                 |                    |
|-----------------|--------------------|
| a) 1 only       | b) 1, 2 and 4 only |
| c) 2 and 3 only | d) 1, 2 and 3 only |

28. Meanders are most likely to be formed in which of the following stages of the river?

- a) Youth stage
- b) Mature stage
- c) Old Stage
- d) They are equally likely to be formed in all three stages.

29. Consider the following about Glaciers.

1. Glacial retreat can result in the creation of a lake.
2. Materials deposited by a retreating glacier results in glacial moraines.

Which of the above is/are correct?

- |                 |           |
|-----------------|-----------|
| a) 1 only       | b) 2 only |
| c) Both 1 and 2 | d) None   |

30. Peninsula is

- a) A land surrounded by water from all the sides
- b) A water body surrounded by land from three sides
- c) A land surrounded by water from three sides
- d) A gulf connected to large water body

31. Which of the following is/are example(s) of organically formed sedimentary rocks?

- |              |          |
|--------------|----------|
| 1. Limestone | 2. Coal  |
| 3. Basalt    | 4. Shale |

Select the correct answer using the codes below.

- |                    |                    |
|--------------------|--------------------|
| a) 1 and 2 only    | b) 1, 2 and 4 only |
| c) 1, 2 and 3 only | d) 3 and 4 only    |

32. Consider the following statements.

1. Basalt is an example of an intrusive igneous rock.
2. Igneous and sedimentary rocks can change into metamorphic rocks under great heat and pressure, but metamorphic rocks cannot change into either of them.
3. Granite rocks were formed due to cooling down of magma inside the earth.

Select the correct answer using the codes below.

- |           |                      |
|-----------|----------------------|
| a) 1 only | b) None of the above |
| c) 3 only | d) 2 and 3 only      |

33. Which one of the following is NOT a single element mineral?

- |           |             |
|-----------|-------------|
| a) Gold   | b) Mica     |
| c) Silver | d) Graphite |

34. Nearly half of the earth's crust is composed of

- |             |            |
|-------------|------------|
| a) Feldspar | b) Mica    |
| c) Quartz   | d) Granite |

35. Which one of the following is a salient feature of metamorphic rocks?

- |                      |              |
|----------------------|--------------|
| a) Low melting point | b) Lustre    |
| c) Crystalline       | d) Foliation |

36. Minerals on earth mainly come from

- |               |                     |
|---------------|---------------------|
| a) Magma      | b) Fossils          |
| c) Meteoroids | d) Both (a) and (b) |

37. Consider the following about the Dharwar System of rocks.

1. It is the oldest rock system of India.
2. It contains metamorphic sedimentary rocks.
3. It hosts gold mines.

Select the correct answer using the codes below.

- |                 |                 |
|-----------------|-----------------|
| a) 1 and 2 only | b) 2 only       |
| c) 1 and 3 only | d) 2 and 3 only |

38. The eastern and western boundaries of the Pacific Ocean experience frequent earthquakes mainly due to

1. Their margins coinciding with the plate margins.
2. The presence of high mountain stretches along the continental belts

Which of the above is/are correct?

- A. 1 only  
B. 2 only  
C. Both 1 and 2  
D. None of the above

39. Consider the following statements.

1. The expansion created by the "Big Bang" continues even to the present day.
2. Soon after the Big Bang, the Universe became highly opaque and temperatures started rising till the atmosphere was formed.

Which of the above is/are correct?

- A. 1 only  
B. 2 only  
C. Both 1 and 2  
D. None of the above

40. Which of the following causes "Sea floor spreading"?

- A. Weight of the ocean bed  
B. Due to gravitational force  
C. Constant volcanic eruptions at the ocean floor  
D. Presence of Seabed methane

41. With reference to the Earthquake Waves, consider the following statements:

1. P-waves move faster than S-waves.
2. P-waves travel only through solid medium whereas S-waves travel through both solid and liquid medium.
3. Love waves and Rayleigh waves are body waves whereas P-waves and S-waves are surface waves.

Which of the statements given above is/are correct?

- A. 1 only  
B. 1 and 3 only  
C. 2 and 3 only  
D. None

42. Consider the following statements:

1. The size of the parallels of latitude decreases from the Equator towards poles.
2. All meridians are of equal length.

Which of the statements given above is/are correct?

- A. 1 only  
B. 2 only  
C. Both 1 and 2  
D. Neither 1 nor 2.

43. Consider the following statements:

1. Richter scale is used for measuring the intensity of Earthquake.
2. Mercalli scale is used for measuring the magnitude of Earthquake.
3. The range of intensity scale is from 1-10.

Which of the statements given above is/are correct?

- A. 1 and 2 only  
 B. 3 only  
 C. 1, 2 and 3  
 D. None

44. With reference to the intrusive volcanic landforms, consider the following statements:

1. Batholiths are the cooled portion of magma chambers.
2. Dykes are the near horizontal bodies of the intrusive igneous rocks.
3. Phacoliths are wavy mass of intrusive rocks.

Which of the statements given above is/are correct?

- A. 1 and 3 only  
 B. 2 and 3 only  
 C. 1, 2 and 3  
 D. 1 and 2 only

45. With reference to the 'Continental Drift Theory' proposed by Alfred Wegener, consider the following statements:

1. In the beginning, all the continents formed a single continental mass called Laurasia.
2. The movement responsible for the drifting of the continents was caused by pole-fleeing force and tidal force.

Which of the statements given above is/are correct?

- A. 1 only  
 B. 2 only  
 C. Both 1 and 2  
 D. Neither 1 nor 2

46. Consider the following statements:

1. Convection currents are generated due to radioactive elements causing thermal differences in the mantle portion.
2. The ocean crust rocks are much older than the continental rocks.
3. In the mid-oceanic ridge areas, the earthquake foci have shallow depths.

Which of the statements given above is/are correct?

- A. 1 only  
 B. 2 and 3 only  
 C. 1, 2 and 3  
 D. 1 and 3 only

47. Arid landforms are caused by which of the following factors?

1. Insufficient rainfall
2. High temperatures
3. High Humidity
4. Rapid rate of evaporation

Select the correct answer from the following codes

- a. Only 4  
 b. Only 1 and 2  
 c. Only 2, 3 and 4  
 d. 1, 2 and 4

48. Which of the following determines rate of erosion of glaciers ?

1. Velocity of flow
2. Weight of Glacier
3. Gradient of Slope
4. Geological structure of valley

Select the correct answer from the following codes

- a. Only 2 and 3  
 b. Only 1 and 4  
 c. Only 1, 3 and 4  
 d. 1,2,3 and 4



49. Which of the following is the type of plate boundary of the Indian plate along the Himalayan Mountains?

- (a) Ocean-Continent Convergence (b) Divergent Boundary  
(c) Transform Boundary (d) Continent-Continent Convergence

50. Which of the following were the parts of the Gondwanaland?

1. South America                      2. Antarctica                      3. Madagascar                      4. India                      5. Arabia

Select the correct answer using the code given below:

- (a) 3 and 4 only (b) 1, 4 and 5 only  
(c) 2, 3 and 5 only (d) 1, 2, 3, 4 and 5

51. Match the following:

**Types of Delta**

- A. Estuarine delta  
B. Bird's-foot delta  
C. Arcuate delta  
D. Cuspate delta

**Rivers**

1. Mississippi  
2. Nile  
3. Ebro  
4. Amazon

Select the correct answer using the code given below:

- |             |             |
|-------------|-------------|
| A B C D     | A B C D     |
| (a) 4 2 3 1 | (b) 4 1 2 3 |
| (c) 2 4 1 3 | (d) 3 1 2 4 |

52. Which of the following statements is/are incorrect regarding Caves formation in Karst Topography?

1. Caves formation is prominent in the areas with alternative bed of Shales and Sandstones rocks.
2. In areas, where Limestone are dense and occurring as thick beds, cave formation is prominent.

Select the correct answer using the code given below:

- (a) 1 only (b) 2 only  
(c) Both 1 and 2 (d) Neither 1 nor 2

53. Which of the following characteristic features of Fluvial Erosional landforms is/are correctly matched?

1. **Gorges** - They are formed due to active down cutting of the valleys through the mechanism of pothole drilling during young stage of fluvial cycle erosion.
2. **Potholes** - They are generally formed in coarse-grained rocks such as sandstones and granites.
3. **Waterfalls** - They are formed due to variations in the relative resistance of rocks.

Select the correct answer using the code given below:

- (a) 1 only  
(c) 3 only

- (b) 2 and 3 only  
(d) 1, 2 and 3

54. Consider the following pairs:

**Intrusive Definition    Volcanic Form**

- |                  |  |
|------------------|--|
| 1. 1. Batholiths | Lava making its way vertically through fissures.                   |
| 2. 2. Laccoliths | A surface volcanic domes of composite volcano.                     |
| 3. 3. Dykes      | A large body of magmatic material that cools in the deeper depths. |
| 4. 4. Sills      | Lava making its way through cracks and the fissures horizontally.  |

Which of the above pairs are incorrectly matched?

- (a) 1 and 3 only  
(c) 1 and 4 only

- (b) 2 and 3 only  
(d) 1, 2, 3 and 4

55. Landforms of Highland Glaciation consist of:

- |                     |             |
|---------------------|-------------|
| 1. Corrie or cirque | 2. Eskers   |
| 3. Hanging valleys  | 4. Moraines |

Which of the above statements are correct?

- (a) 1, 2 and 3 only  
(c) 1, 3 and 4 only

- (b) 2, 3 and 4 only  
(d) 1, 2 and 4 only

56. Match the following denudational features of deserts with their respective agents:

- | <b>Features</b>   | <b>Agents</b>       |
|-------------------|---------------------|
| A. Mushroom rocks | 1. Wind deposition  |
| B. Barchans       | 2. Wind erosion     |
| C. Pediment       | 3. Water deposition |
| D. Bajada         | 4. Water erosion    |

Select the correct answer using the code given below:

- A B C D  
(a) 1 2 3 4  
(c) 2 1 3 4

- A B C D  
(b) 1 2 4 3  
(d) 2 1 4 3

57. With reference to 'Moon', which of the following statements is/are correct?

- The Moon is in synchronous rotation with Earth and thus always shows the same side to earth.
- Lunar eclipse occur at new moon when the Earth is between the Sun and Moon.
- The moon has elliptical orbit.

Select the correct answer using the code given below:

- (a) 1 and 2 only  
(c) 1 only

- (b) 1 and 3 only  
(d) 2 and 3 only